

# Converting Colors

$Y_{xy}(100.0000, 0.2538, 0.4619)$

Have a look what the booklet for  
Yxy(100.0000, 0.2538, 0.4619)  
contains.

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# Color

**Yxy(74.9807, 0.2511, 0.4239)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FFB8
RGB	0, 255, 184
RGB Percent	0%, 100%, 72%
CMY	0.9988, 0.0000, 0.2784
CMYK	1.00, 0.00, 0.28, 0.00
HSL	163°, 100%, 50%
HSV	163°, 100%, 100%
XYZ	44.4153, 74.9807, 57.4870
YIQ	170.6610, -129.1890, -76.1410

# Conversions

## Conversions Part 2

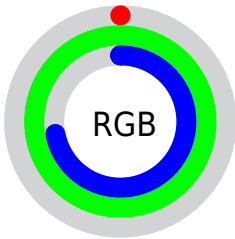
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 148, 255
Decimal	65464
CIELab	89.38, -66.24, 20.05
CIELCh	89, 69.206, 163.159
Yxy	74.9807, 0.2511, 0.4239
Android (android.graphics.Color)	4278255544 (0xFF00FFB8)
YUV	170.6610, 6.5761, -149.6697
Hunter-Lab	86.5914, -59.9770, 21.2521

# Details

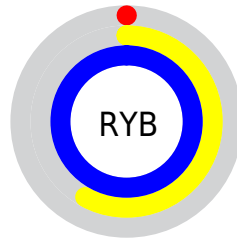
The Yxy color **74.9807, 0.2511, 0.4239** is a dark color, and the websafe version is hex **00FFCC**. The color can be described as middle saturated spring green. A complement of this color would be **21.7249, 0.5881, 0.3014**, and the grayscale version is **40.6080, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.5243, 0.2494, 0.3465**, and **41.5712, 0.2564, 0.4429** is the 20% darker color. If you saturate the color by 10%, you get **74.9779, 0.2511, 0.4240**, and if you desaturate by 10%, it is **75.5039, 0.2497, 0.4134**.

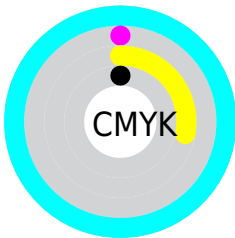
# Distribution



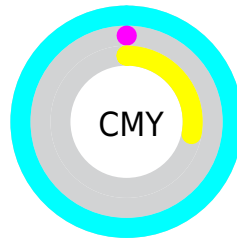
- Red (0%)
- Green (100%)
- Blue (72%)



- Red (0%)
- Yellow (58%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (28%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (28%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 74.9807, 0.2511, 0.4239 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 74.9807, 0.2511, 0.4239 by changing the saturation by 10% instead.




 74.9807, 0.2511,  
0.4239

 74.9807, 0.2511,  
0.4239

477.8512, 0.2806,  
0.3775

 55.5971, 0.2441,  
0.4351

 126.2850, 0.2615,  
0.4073

 39.8800, 0.2355,  
0.4493


 158.9746, 0.2655,  
0.4010

 27.4450, 0.2243,  
0.4677


 196.8681, 0.2689,  
0.3956

 17.9077, 0.2095,  
0.4925

 240.3502, 0.2719,  
0.3910

 10.8837, 0.1891,  
0.5276

 289.8052, 0.2745,  
0.3870

 5.9887, 0.1596,  
0.5804


345.6174, 0.2768,

 2.8382, 0.1007,


0.3834


0.6765


408.1713, 0.2788,  
0.3803


 1.0479, 0.0000,  
1.0000


 0.0000, 0.0000,  
0.0000


 74.9807, 0.2511,  
0.4239


 74.9807, 0.2511,  
0.4239


 74.9779, 0.2511,  
0.4240

 75.5039, 0.2497,  
0.4134


 76.3193, 0.2499,  
0.4028

 77.5133, 0.2522,  
0.3921


 79.1379, 0.2566,  
0.3816

 81.2368, 0.2628,  
0.3713

 83.8481, 0.2707,  
0.3615

 87.0061, 0.2799,  
0.3523

 90.7421, 0.2902,  
0.3438

 95.0849, 0.3013,  
0.3360

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



74.9807, 0.3264, 0.4777



74.9807, 0.2511, 0.4239



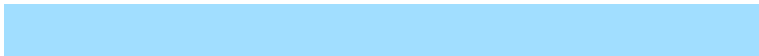
74.9807, 0.1967, 0.3351

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



74.9807, 0.2511, 0.4239



74.9807, 0.2167, 0.2058



74.9807, 0.4752, 0.3644

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



74.9807, 0.2511, 0.4239



21.7249, 0.5881, 0.3014

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



74.9807, 0.4403, 0.3059



74.9807, 0.2511, 0.4239



74.9807, 0.2811, 0.2197

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



74.9807, 0.2511, 0.4239



74.9807, 0.1806, 0.2176



74.9807, 0.3647, 0.2551



74.9807, 0.4582, 0.4235



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



74.9807, 0.2511, 0.4239



74.9807, 0.1777, 0.2815



74.9807, 0.3647, 0.2551



74.9807, 0.4694, 0.3445

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



74.9833, 0.2511, 0.4239



86.9664, 0.2798, 0.3524



72.9162, 0.3116, 0.5907



18.3153, 0.2758, 0.3562



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

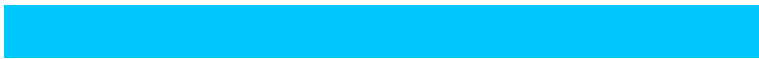
The Same Dimension uses a secret algorithm to generate beautiful new colors.



74.9833, 0.2511, 0.4239



74.9779, 0.2511, 0.4240



48.4443, 0.2045, 0.2563



20.3900, 0.3017, 0.3357



39.2043, 0.2506, 0.4223



3.8358, 0.2473, 0.4103



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



21.7249, 0.5881, 0.3014



21.7158, 0.5884, 0.3015



24.0389, 0.6172, 0.3480



18.0703, 0.3250, 0.3224



11.3686, 0.5842, 0.2992

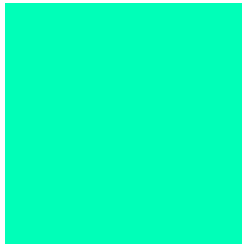


1.1245, 0.5523, 0.2816



# Previews

## White Background



This preview shows how the Yxy color 74.9807, 0.2511, 0.4239 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

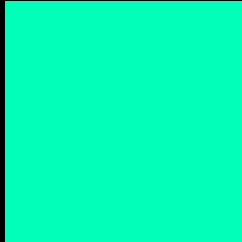
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 74.9807, 0.2511, 0.4239 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

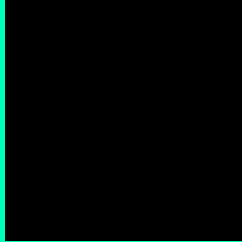
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

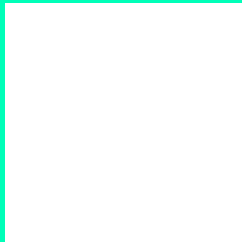
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 74.9807, 0.2511, 0.4239**

## **Background**



This preview shows how black text looks on a background with the Yxy color 74.9807, 0.2511, 0.4239.

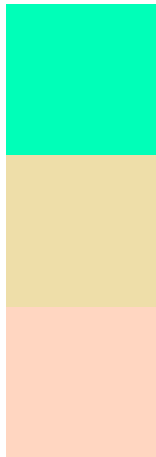


This preview shows how white text looks on a background with the Yxy color 74.9807, 0.2511, 0.4239.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

74.9807, 0.2511, 0.4239

### Protanopia

73.2843, 0.3609, 0.3859

### Deuteranopia

73.2034, 0.3589, 0.3507



## Tritanopia

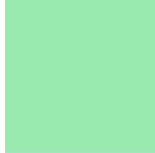
74.1039, 0.2467, 0.3103

# Trichromacy



## Original Color

74.9807, 0.2511, 0.4239



## Protanomaly

68.5770, 0.2955, 0.4052



## Deuteranomaly

67.4377, 0.2923, 0.3775



## Tritanomaly

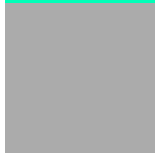
72.9404, 0.2421, 0.3488

# Monochromacy



## Original Color

74.9807, 0.2511, 0.4239



## Achromatopsia

40.7240, 0.3127, 0.3290



## Achromatomaly

48.6269, 0.2662, 0.3670

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 74.9807, 0.2511, 0.4239 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(0, 255, 184)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 184)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(0, 255, 184) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 184) }
```

## Border

The CSS property to change the border of an element to Yxy 74.9807, 0.2511, 0.4239 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(0, 255, 184) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(0, 255, 184) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(0, 255, 184)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 184); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 184);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
184) }
```



# Background

The CSS property to change the background color of an element to Yxy 74.9807, 0.2511, 0.4239 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 255, 184) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(0, 255,  
184) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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